

# *Operator's Manual*

# *SYSTEM 5000*™

ELECTROSURGICAL UNIT

Best Available Copy



**SYSTEM 5000****1.2.8 Contact Quality Monitor**

Single dispersive electrode: Two wire continuity detector, typical trip threshold is 10 ohms  
 Dual dispersive electrode: Two wire resistance monitor, typical acceptance range 10 to 150 ohms, trip threshold typically 30% higher than initial activation, visual indication of patient resistance changes.

**1.2.9 Audio Specifications**

Cut = 520 Hz

Coag = 440 Hz

Bipolar = 440 Hz

Acc Fault = 847 Hz (pulsating)

Dispersive Electrode Alarm = 847 Hz (pulsating)

Err Fault = 847 Hz (pulsating)

Increase Power Level = 379 Hz

Decrease Power Level = 343 Hz

(All tones are 45 dbA minimum except Alarms, which are 65 dbA minimum)

Enter Cut Remote Power Control = 440 Hz followed by 574 Hz

Enter Coag Remote Power Control = 440 Hz followed by 515 Hz

Bipolar Output Tone = 215 Hz

Pulse Cut Activation Tone = 520 Hz with periodic short pulses at 481 Hz during output power pulses

Pulse Coag Activation Tone = 440 Hz with periodic short pulses at 384 Hz

**1.2.10 Other Specifications**

Power Cord: All units supplied with an IEC-320 250V 10A 65°C mains inlet connector. Power cords can be ordered from CONMED Electrosurgery or obtained from other sources if the following specifications are met:

Region	Specification	Description	Standard
USA, Canada	Any UL, CSA manufacturer	SJT or better 250VAC, minimum 16AWG, 3 Conductor, maximum length 20 feet (6m)	UL817
Europe	Any HAR cord manufacturer	<HAR>H05WF3G1.0 Copper 1.0mm <sup>2</sup> minimum cross sectional area, maximum length 20 feet or 6.0m	IEC60799

Weight: 21.5 lb. (9.75 Kg)

Height: 5.5 inches (14 cm); Width: 13.5 inches (35 cm); Depth: 21.5 inches (48 cm) including handle

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**1.2.11 Operating Modes and Nominal Output Parameters**

Mode	Max Power (watts)	Rated Load (ohms)	Typical Crest Factor	Max Open Circuit Voltage (Peak)	Max Loaded Voltage (Peak)	Carrier Freq. (KHz)*	Pulse Repetition Freq. (KHz)
<b>Monopolar</b>							
Pure Cut	300	500	1.4 - 1.7	800	820	391	N/A
Blend 1	200	500	1.5 - 1.9	860	930	391	20.0
Blend 2	200	500	1.8 - 2.4	1100	1100	391	20.0
Blend 3	200	500	2.4 - 2.9	1480	1480	391	20.0
Pinpoint Coag	120	500	3.7 - 4.6	2120	2120	391	20.0
Standard Coag	120	500	5.6 - 6.6	3140	3500	562	39.0
Spray Coag	80	500	7.1 - 9.7	6350	6350	562	19.5
<b>Bipolar</b>							
Micro Coag	50	50	1.5 - 1.9	170	180	391	N/A
Macro Coag	90	300	1.6 - 2.0	610	610	391	N/A

\*Measured in the open circuit condition.

• Activation of Pulse Cut will make the selected cut mode, Pure Cut, Blend 1, Blend 2, or Blend 3 active for 70 milliseconds every 600 milliseconds.

• Activation of Pulse Coag will make the selected coag mode, either Standard or Spray, active for 2.5 milliseconds every 5 milliseconds. Displayed power setting will represent the average power being delivered which is approximately half the power delivered during the pulses.

• LAP Specialty Mode output parameters match general operation parameters except the maximum voltage is limited to less than 2700 Volts peak.

• FLUIDS Specialty Mode output parameters match general operation parameters with an initial energy boost upon activation to initiate an arc.

